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In the Claims:

Please amend Claims 1-8, 15, 17, 19-22, 28-29, and 31-33, and add new Claim 34, all

as shown below. Applicant respectfully reserves the right to prosecute any originally presented

or canceled claims in a continuing or future application.

1. (Currently Amended) An interactive tool A system for supporting application deployment

manipulating a plurality of deployment descriptors, comprising:

a plurality of deployment descriptors that are adapted to describe deployment and

configuration information of a plurality of applications deployed on a web server, wherein each

[[one]] application of the plurality of applications is associated with at least one deployment

descriptor of the plurality of deployment descriptors that describes deployment and configuration

information of the application on the web server; and

a builder component capable of

creating a master tree data structure based on [[the]] a present state of all deployment descriptor files, wherein the master tree data structure represents a state of

the logical hierarchy of resources associated with the plurality of applications at a given

time, wherein the plurality of applications include a first application and the master tree

data structure includes a sub-tree that corresponds to the first application:

creating a separate tree data structure that represents deployment descriptor

information based on [[the]] a current state of source files in [[an]] a project directory associated with the first application's project directory, wherein the separate tree data

structure represents a state of the logical hierarchy of resources associated with the first application, wherein the application is one of the plurality of applications deployed on the

web server:

comparing the sub-tree that corresponds to the first application in the master tree

data structure with the separate tree data structure; and

refreshing the master tree data structure based on the separate tree data

structure, if the master tree data structure is different from the separate tree data

structure.

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 (Currently Amended) The interactive tool system of claim 1, further comprising: a user interface capable of rendering an error message.

(Currently Amended) The interactive toel system of claim 2 wherein:
 user selection of the error message can cause [[the]] a second user interface to render a
 user-editable representation of the at least one deployment descriptor component that is in
 error.

(Currently Amended) The interactive teel system of claim 1, further comprising:
 a parser capable of generating a representation of the at least one deployment descriptor;

a generator capable of creating the at least one deployment descriptor; and a validator capable of validating the at least one deployment descriptor.

(Currently Amended) The interactive tool system of claim 4 wherein:
 the validator is capable of generating an error when it encounters a syntactic or semantic
 fault in the at least one deployment descriptor.

(Currently Amended) The interactive teel system of claim 1, wherein:
 the builder component is further capable of automatically updating the at least one
deployment descriptor to reflect one or more changes in at least one source code file.

- (Currently Amended) The interactive tool system of claim 1 wherein: the hierarchical representation can include information pertaining to an archive file.
- (Currently Amended) The interactive teel system of claim 1 wherein:
 the at least one deployment descriptor can be expressed as an Extensible Markup
 Language document.

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9-14. (Canceled).

15. (Currently Amended) A method for <u>supporting application deployment</u> providing an interactive tool for manipulating a plurality of deployment descriptors, comprising:

deploying a plurality of applications on a web server, wherein each [[one]] <u>application</u> of the plurality of applications is associated with <u>at least one deployment descriptor</u> of [[the]] <u>a</u> plurality of deployment descriptors that describes deployment and configuration information of the application on the web server:

creating a master tree data structure based on [[the]] a present state of all deployment descriptor files, wherein the master tree data structure represents a state of the logical hierarchy of resources associated with the plurality of applications at a given time, wherein the plurality of applications include a first application and the master tree data structure includes a sub-tree that corresponds to the first application:

creating a separate tree data structure-that represents deployment descriptor information based on [[the]] a current state of source files in [[an]] a project directory associated with the first application's project directory, wherein the separate tree data structure represents a state of the legical hierarchy of resources associated with the first application, wherein the application is one of the plurality of applications deployed on the web server:

comparing the <u>sub-tree that corresponds to the first application in</u> the master tree data structure with the separate tree data structure; and

refreshing the master tree data structure based on the separate tree data structure, if the master tree data structure is different from the separate tree data structure.

16. (Original) The method of claim 15, further comprising:

providing a parser capable of generating a representation of the at least one deployment descriptor:

providing a generator capable of creating the at least one deployment descriptor; and providing a validator capable of validating the at least one deployment descriptor.

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17. (Currently Amended) The method of claim 16 wherein, further comprising:

the validator is capable of generating, via the validator, an error when it encounters a

syntactic or semantic fault in the at least one deployment descriptor.

18. (Original) The method of claim 15, further comprising:

providing a builder component capable of automatically updating the at least one

deployment descriptor to reflect one or more changes in at least one source code file.

19. (Currently Amended) The method of claim 15 wherein:

including the hierarchical representation can include information pertaining to an archive

file.

20. (Currently Amended) The method of claim 15 wherein:

expressing the at least one deployment descriptor can be expressed as an Extensible

Markup Language document.

21. (Currently Amended) A machine readable medium having instructions stored thereon

that when executed by a processor cause a system to:

deploy a plurality of applications on a web server, wherein each [[one]] <u>application</u> of the plurality of applications is associated with <u>at least one deployment descriptor</u> of a plurality of

deployment descriptors that describes deployment and configuration information of the

application on the web server;

create a master tree data structure based on [[the]] a present state of all deployment

descriptor files, wherein the master tree data structure represents a state of the logical hierarchy

of resources associated with the plurality of applications at a given time, wherein the plurality of

applications include a first application and the master tree data structure includes a sub-tree that

corresponds to the first application;

create a separate tree data structure that represents deployment descriptor information

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based on [[the]] a current state of source files in [[an]] a project directory associated with the first application's project directory, wherein the separate tree data structure represents a state of the legical hierarchy of resources associated with the first application, wherein the application is one of the plurality of applications deployed on the web server:

compare the <u>sub-tree that corresponds to the first application in</u> the master tree data structure with the separate tree data structure; and

refresh the master tree data structure based on the separate tree data structure, if the master tree data structure is different from the separate tree data structure.

22. (Currently Amended) The machine readable medium of claim 21, further comprising instructions that when executed cause the system to:

provide a user interface capable of rendering an error message, wherein user selection of the error message in [[the]] a third user interface can cause [[the]] a second user interface to render a user-editable representation of the at least one deployment descriptor component that is in error.

23. (Original) The machine readable medium of claim 21, further comprising instructions that when executed cause the system to:

provide a parser capable of generating a representation of the at least one deployment descriptor;

provide a generator capable of creating the at least one deployment descriptor; and provide a validator capable of validating the at least one deployment descriptor.

24. (Original) The machine readable medium of claim 23 wherein:

the validator is capable of generating an error when it encounters a syntactic or semantic fault in the at least one deployment descriptor.

25. (Original) The machine readable medium of claim 21, further comprising instructions that when executed cause the system to:

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provide a builder component capable of automatically updating the at least one deployment descriptor to reflect one or more changes in at least one source code file.

(Previously Presented) The machine readable medium of claim 21 wherein:
 the hierarchical representation can include information pertaining to an archive file.

27. (Original) The machine readable medium of claim 21 wherein:

the at least one deployment descriptor can be expressed as an Extensible Markup Language document.

28. (Currently Amended) The interactive tool system of claim 1, wherein:

the interactive tool is capable of automatically repairing a first deployment descriptor of the at least one deployment descriptors if the first deployment descriptor is defective.

29. (Currently Amended) The interactive tool system of claim 1, wherein:

the builder component is further capable of creating a tree data structure that embodies hierarchical relationships of nested XML statements.

30. (Canceled).

31. (Currently Amended) The interactive tool system of claim 1, wherein:

the builder component is further capable of

allowing a module to be shared by both the first application and a second application:

disassociating the module from the first application in the master tree data structure, when the module is removed from the first application;

keeping [[a]] the module in the master tree data structure to allow applications other than a current application the second application to use the

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module, even after the module is removed from the current application.

32. (Currently Amended) The interactive tool system of claim 1, further comprising:

a first user interface capable of rendering a hierarchical representation of the plurality of deployment descriptors, wherein a component of the representation can be selected by a user; and

a second user interface capable of rendering a user-editable representation of the selected component.

33. (Currently Amended) The interactive tool system of claim 1, wherein:

the builder component is further capable of generating a new deployment descriptor for the application from the refreshed master tree data structure.

34. (New) The system of claim 1, further comprising:

a pane that displays a single field for a value, wherein the single field maps to multiple values in the at least one deployment descriptor.